LPC# 0313075016 Cook County **Eagle Picher Argo Plant** Summit, IL SF/HRS **Preliminary Assessment** Prepared by: Office of Site Evaluation **Division of Remediation Management Bureau of Land**

SIGNATURE PAGE

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CERCLA

Preliminary Assessment

For:

Eagle Picher Argo Plant Summit, IL LPC 0313075016 ILN 000510834

Prepared by:

Illinois Environmental Protection Agency
Bureau of Land

Division of Remediation Management

Office of Site Evaluation

4/23/13

PRELIMINARY ASSESSMENT EAGLE PICHER ARGO PLANT

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1.0 Introduction

On February 26, 2013, the Illinois Environmental Protection Agency (IEPA) Office of Site Evaluation was tasked by the United States Environmental Protection Agency (U.S. EPA) Region 5 to conduct a Preliminary Assessment for Eagle Picher Argo Plant located on 7724-7742 West 61st Place, Summit, IL 60501-1614 in Cook County (Attachment 1). Per IEPA documents, Eagle Picher Argo used to be known as Division Lead circa 1967. The site is located at the latitude 41.779873 N and longitude of -87.814987 W. A Topographic Map of the location can be found at Attachment 2.

Current U.S. EPA policy stipulates that a Preliminary Assessment be conducted to determine the current status of Eagle Picher Argo. This Preliminary Assessment will consist of an evaluation of recent information to determine if further Superfund investigation is warranted. The Preliminary Assessment will supplement previous assessment work, and is not intended to replace previous Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) assessments.

The Preliminary Assessment is designed to provide necessary information that will help determine if the site qualifies for possible inclusion on the National Priorities List, or should receive a No Further Remedial Action Planned (NFRAP) designation. At the end of the process, the author will recommend that the site may be given a NFRAP designation, receive further Superfund investigation, or referred to another state or federal clean-up program. The Preliminary Assessment is performed under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) commonly known as Superfund. Eagle Picher Argo was placed on the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on January 4, 2001. The most recent CERCLA work conducted on the site was on October 25, 2012 when Illinois EPA completed a Pre-CERCLIS Screening. The Preliminary Assessment Report will describe current site conditions and illustrate how the site has changed since the latest CERCLA Site Assessment.

2.0 Site Description and History

2.1 Site Description

The property once occupied by Eagle Picher Argo is located on 7724-7742 West 61st Place, Summit, IL 60501-1614 in Cook County (Attachment 3). The facility was approximately

6.3 acres and is surrounded by a mixture of commercial and residential properties. To the west of the site is Pick N Pull (7800 West 61st), it is a salvage yard. There are approximately 13 houses directly south of the Eagle Picher Argo site along West 61st Street. There are various businesses located to the north, south, and west of the property. Walsh Elementary School is approximately seven tenths of a mile to the northeast and Otis P. Graves Elementary School is approximately half a mile east. Happy Days Day Care is a tenth of a mile to the east and Summit Park is four tenths of a mile north of the site. The Chicago Sanitary Drainage and Ship Canal is one mile to the west of the property. On the northeast corner of the site is a Valero gas station. To the direct north of the site is Summit window, while to the northwest of the site is Stag Iron and Metal. Stag Iron and Metal has various large piles of scrap metal littering the property.

It is believed that groundwater flow from the Eagle Picher Argo Site is believed to be toward the south and west in the direction of the Sanitary Drainage and Ship Canal as well as the Des Plaines River. Groundwater use for drinking purposes is prohibited by a City of Chicago ordinance.

2.2 Site History

According to IEPA records, the property was purchased by Eagle Picher in 1920 from Midland Chemical Company in order to produce lithopone, which is a zinc based white pigment. An additional building was added to the facility in 1949 or 1950, which Division Lead Company occupied in 1967. Throughout the operational history of the facility, there is no information that suggests that any smelting took place on the property. There is file information, however, that suggests that the facility was used for babbit and solder refining. According to IEPA files, the original building, which was the chemical plant, was occupied by Reichhold Chemical Company at the time Division Lead Company occupied the additional building. No known timeframe of Reichhold Chemical Company is known, but it appeared no Sanborn Maps in 1967. The chemical plant was demolished and the area that included the building is now occupied by semitrailers. From a Site Reconnaissance visit on March 18, 2013, it appears that the site is now occupied Koal Heating and Oakk Construction. There were various semi-trailers parked on the property (Appendix A)

A Pre-CERCLIS Screening (PCS) was completed on October 25, 2012. The (PCS) included several Sanborn Maps of the area and copies of pages in the Standard Metal Directory.

Due to the fact that residential properties are located directly across the street from the abandoned facility, it was recommended that a CERCLA Preliminary Assessment be conducted.

Section 2.3 Regulatory Status

Based upon available file information the Eagle Picher Argo Plant site does not appear to be subject to Resource Conservation and Recovery Act (RCRA) authorities. Information that is currently available does not indicate that the site is under the authority of the Atomic Energy Act (AEA), Uranium Mine Tailings Action (UMTRCA), of the Federal Insecticide Fungicide or Rodenticide Act (FIFRA).

Information obtained from U.S. EPAs Envirofacts Database suggests that the facility was historically used for non-ferrous metal rolling, drawing, and extruding. From 1987 – 2000, while operating under Division Lead Company, an average of over 200 pounds of lead was released into the environment each year through air emissions. According to the Envirofacts Database there is no information that suggests that any enforcement actions have taken place against any of the past owners of the facility.

Section 3.0 Field Investigation Activities

Section 3.1 Field Inspection

On February 26, 2013, the Illinois Environmental Protection Agency (IEPA) Office of Site Evaluation was tasked by the United States Environmental Protection Agency to conduct a CERCLA Preliminary Assessment for Eagle Picher Argo Plant. On March 18, 2013 a site reconnaissance and inspection was completed. The reconnaissance revealed that the site was completely paved and is used for the parking of semi-trailer trucks. The property is now occupied by Koal Heating and Oakk Construction. There are no indications that any chemical operations that were once conducted by Eagle Picher still continue at the facility. The site was active with trucks going in and out of the gate that surrounds the entrance. There are residential areas across West 61st Street and other industrial business surrounding the north, east, and west of the site.

During the site reconnaissance and site inspection, eight soil samples and two background samples (collected from Summit Park, north of the site) were analyzed for inorganic contaminants using an X-Ray Fluorescence (XRF) analyzer. The XRF is a hand held instrument

that analyzes the soil for inorganic constituents (also known as metals). The results of the XRF analysis are presented in Section 4.2.

Section 3.2 XRF Data

XRF locations 3-10 were collected from the public right-of-way immediately south of the subject property. XRF samples 11 and 12 were collected from Summit Park which is located approximately a half of a mile north of the property. All of the XRF samples were collected from areas of un-vegetated soil within the upper one inch. Each location was selected to determine any possible impact that past operations by Eagle Picher Argo may have had on the area. A summary of the results can be found in Table 1 of this report. The locations of the XRF samples are illustrated in Attachments 5 and 6 of this report.

Section 4.0 Pathway Discussion

Section 4.1 Groundwater Pathway

Eagle Picher Argo sits on an aquifer that is formed with Silurian dolomite forms the in the uppermost bedrock. Groundwater is thought to flow south and west in the direction of the Chicago Sanitary Drainage and Ship Canal as well as the Des Plaines River. In a 4-mile radius of Eagle Picher Argo, no wells were located for use. The primary source of drinking water for this area is a surface water intake located within Lake Michigan. Lake Michigan provides drinking water for the City of Chicago and most of the surrounding suburban areas including Summit.

Section 4.2 Soil Pathway

Landforms of in the area of Eagle Picher Argo are in result to glacial movements. The elevation of Summit, IL is between 600-650 feet above sea level. The Illinois State Geological Survey states that Cook County is on the eastern flank of the southward-plunging Wisconsin Arch. Due to the historic nature of the site there are several potential sources due to chemicals and metals known to once be on the site.

The Soil Exposure route focuses on contaminated soil in the upper two feet of the ground surface and within 200 feet of an occupied residence or in an area accessible to the nearby population. There are residential properties bordering the southern portion on the site. Most of the site seems to be paved; therefore, any contamination would have a barrier to humans. The table below illustrates the population within certain distances of the site.

Distance (mi) Population

0 – ¼ mile	815
¼ - ½ mile	1948
½ - 1 mile	5145

Total 7908

Upon the Site Reconnaissance visit and XRF data collected no values were found to be three times the background limit. Most values were found to be below the level of detection of the XRF. XRF3- XRF10 were taken on unvegetated soil that was located on the right-of-way in front of houses that occupied the southern border of the property. XRF11 and XRF 12 were taken on vegetated soil at Summit Park.

5.0 Summary and Conclusion

The results of the samples were compared to the background level, which evaluates whether a release from the site has or has not occurred. Though levels were detected of some of the metals, these levels did not exceed three times background. Given that there are not any active community wells located in the area and there are no observable releases from Eagle Picher Argo, it can be concluded that at this time there is no need to warrant further investigation of the site and Eagle Picher does not need to move further on in the CERCLA process. The contamination is limited and does not exceed a high enough concentration to warrant further consideration into the program. This does not exclude the site from future CERCLA activity if there is evidence of contamination in the future.

6.0 References

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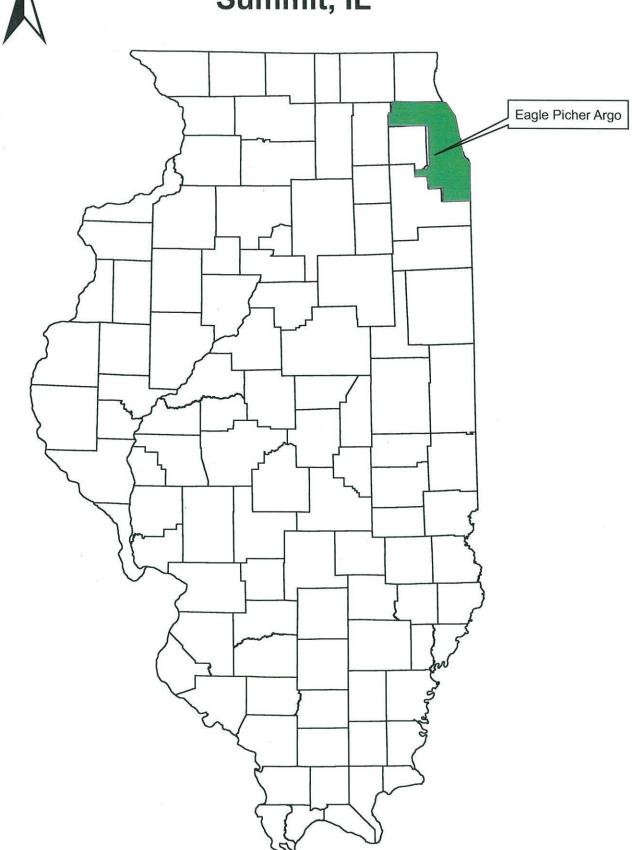
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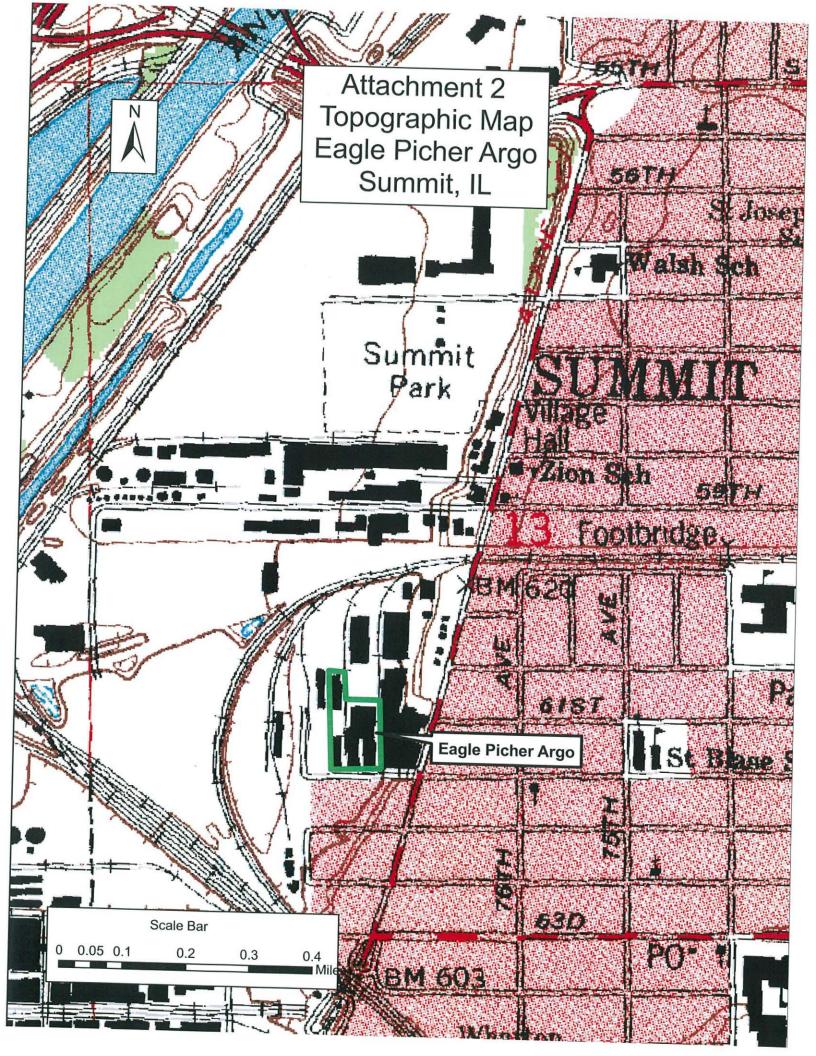
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Attachment 1 Site Location Map Eagle Picher Argo Summit, IL







Attachment 4 Sanborn Fire Insurance Maps

Certified Sanborn® Map Report

10/08/12

Site Name:

Client Name:

Eagle Picher Argo Property 7742 West 61st Place Summit Argo, IL 60501 Weston Solutions, Inc. 750 E. Bunker CT. Vernon Hills, IL 60061



EDR Inquiry # 3426234.1

Contact: David Sena

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Certified Sanborn Results:

Site Name:

Eagle Picher Argo Property

Address:

7742 West 61st Place

City, State, Zip:

Summit Argo, IL 60501

Cross Street:

P.O. #

NA

Project:

Eagle Picher Argo Property

Certification #

841E-4BE0-90CE

Maps Provided:

1967

1950

1949

1925



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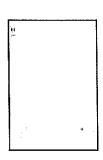
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1967 Source Sheets

1950 Source Sheets





Volume E, Sheet 74

Volume E, Sheet 85

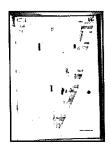
1949 Source Sheets



Volume H, Sheet 114

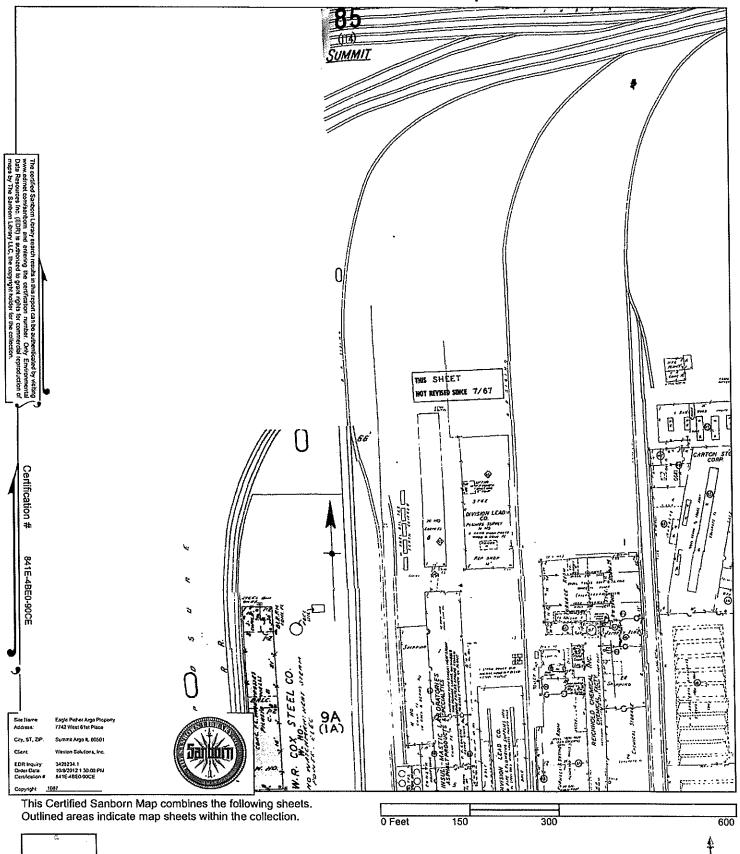
1925 Source Sheets





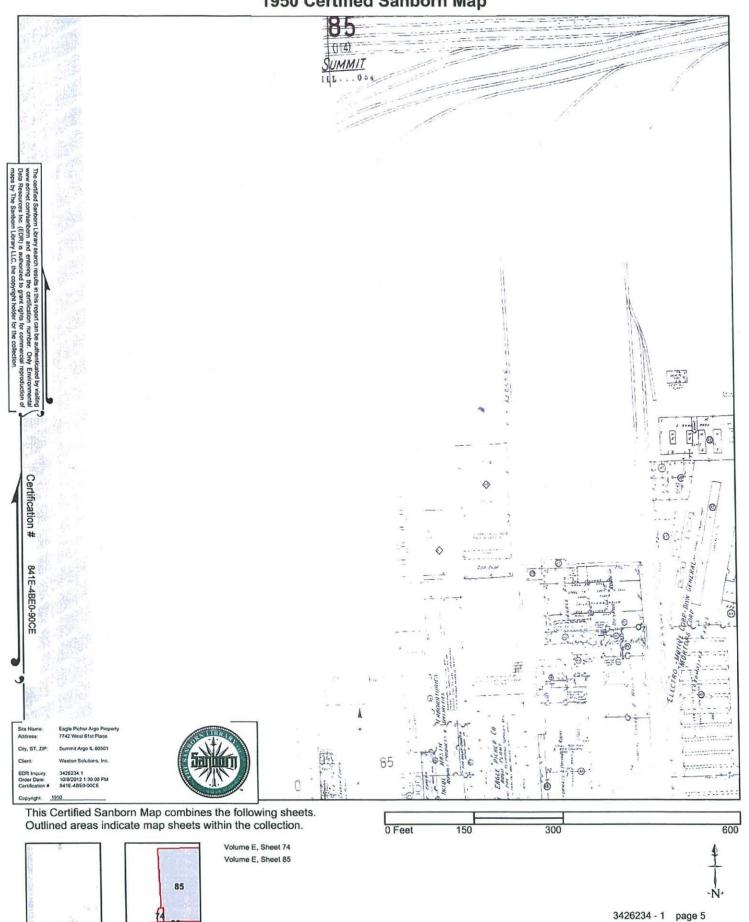
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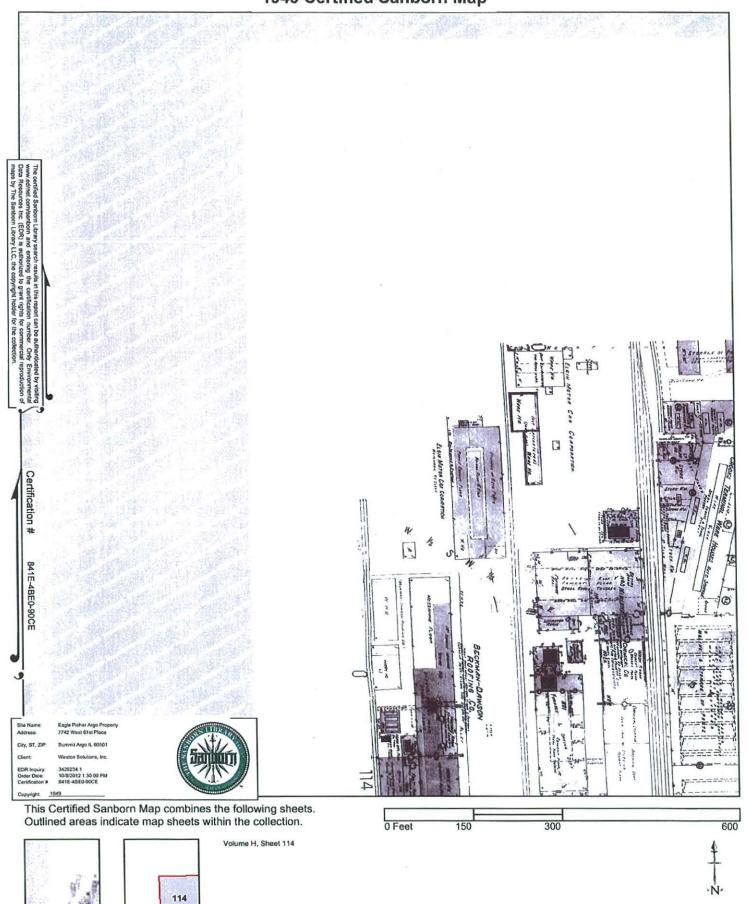
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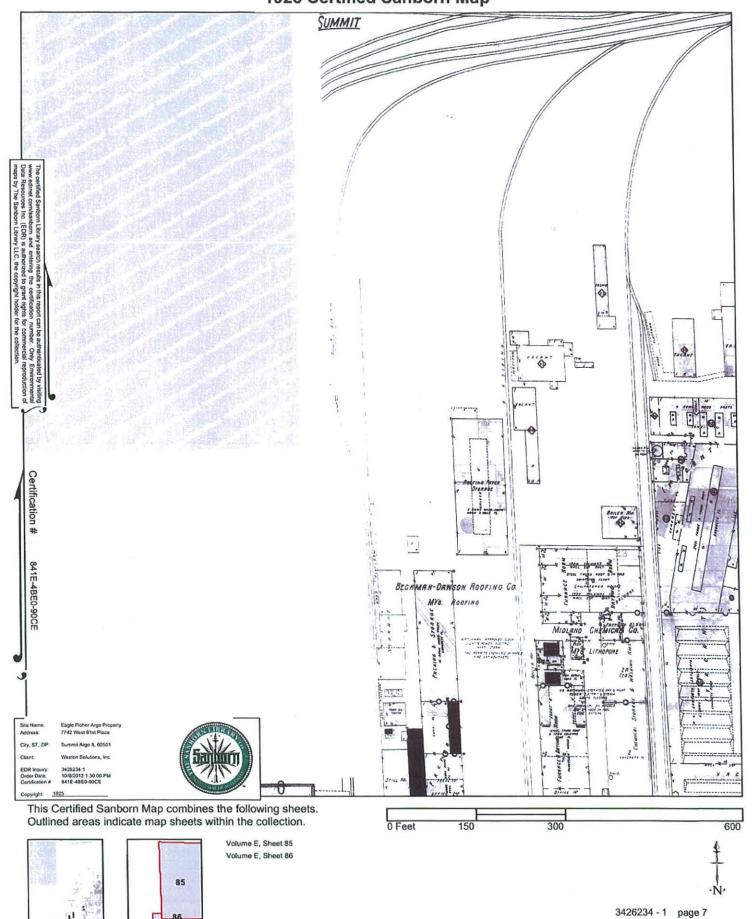
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Eagle Picher Argo Property

7742 West 61st Place Summit Argo, IL 60501

Inquiry Number: 3426234.1

October 08, 2012

Certified Sanborn® Map Report



Certified Sanborn® Map Report

10/08/12

Site Name:

Eagle Picher Argo Property 7742 West 61st Place Summit Argo, IL 60501 Client Name:

Weston Solutions, Inc. 750 E. Bunker CT. Vernon Hills, IL 60061

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EDR Inquiry # 3426234.1

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Address:

7742 West 61st Place Summit Argo, IL 60501

City, State, Zip: Cross Street:

P.O. #

NA

Project:

Eagle Picher Argo Property

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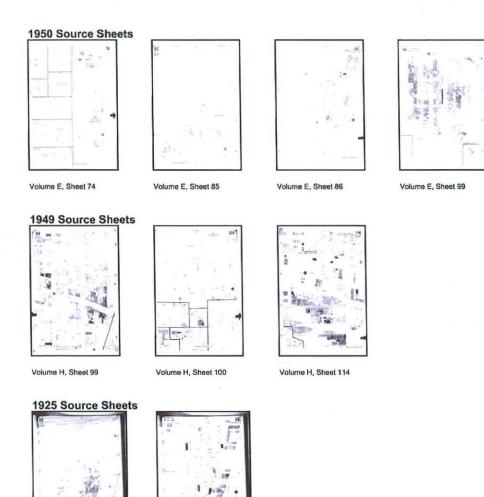
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1967 Source Sheets

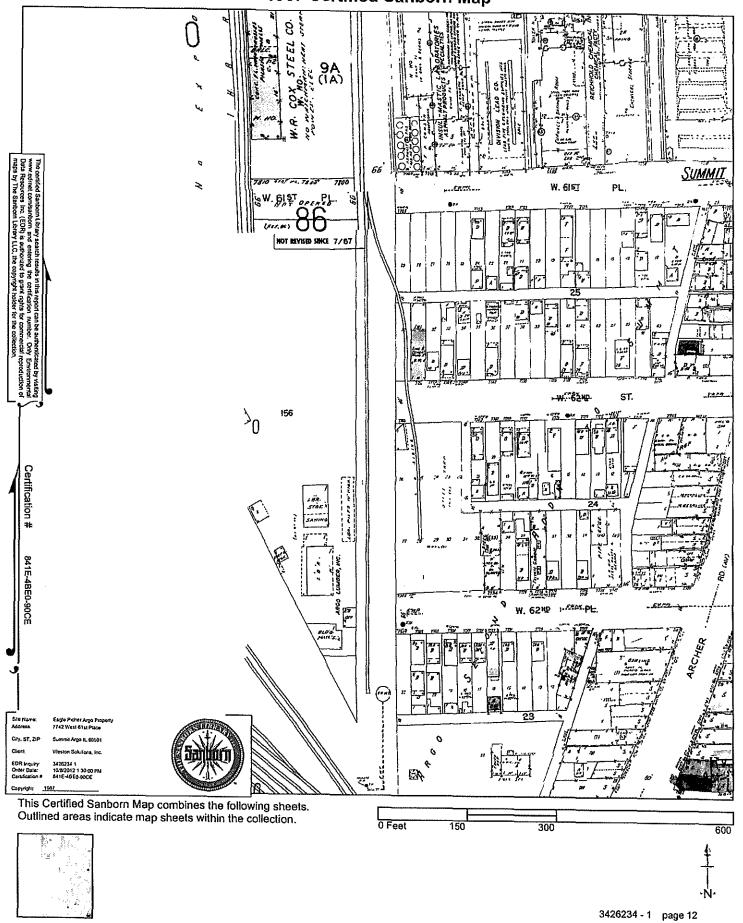
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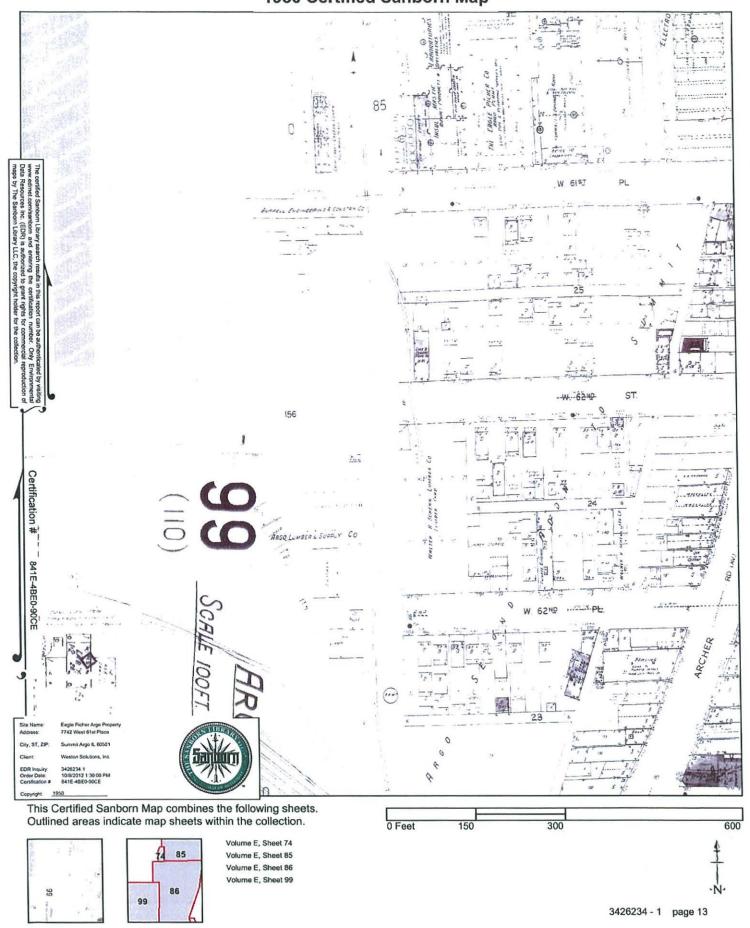


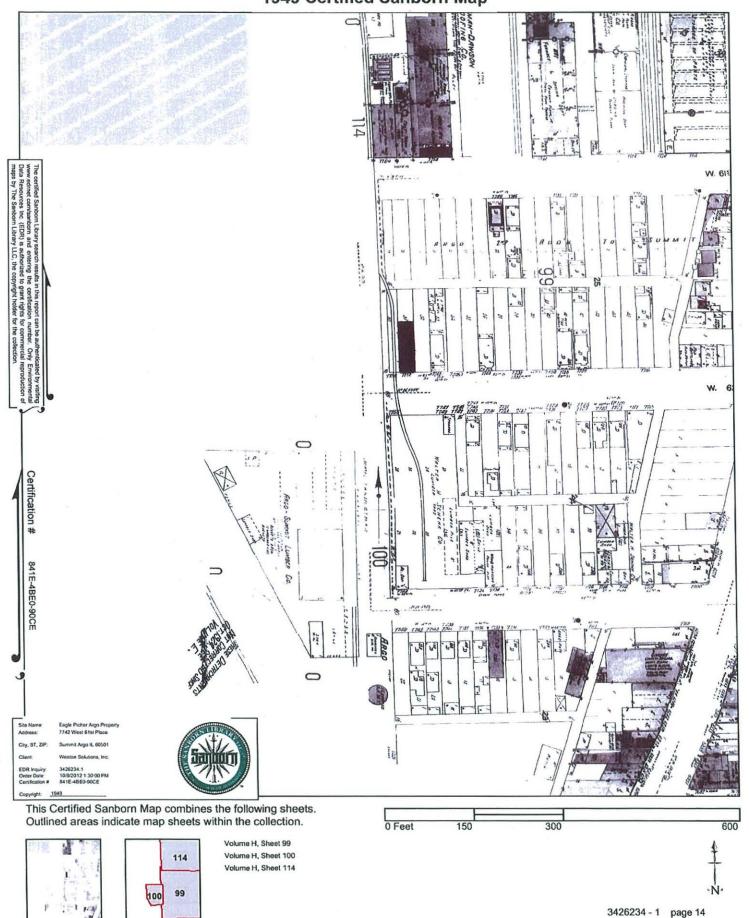
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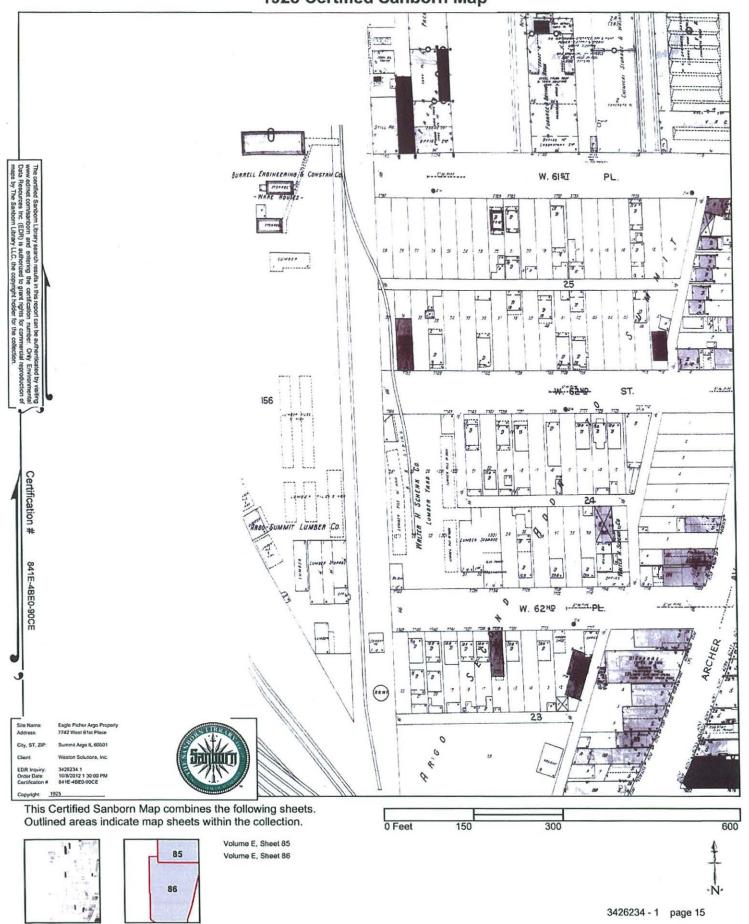
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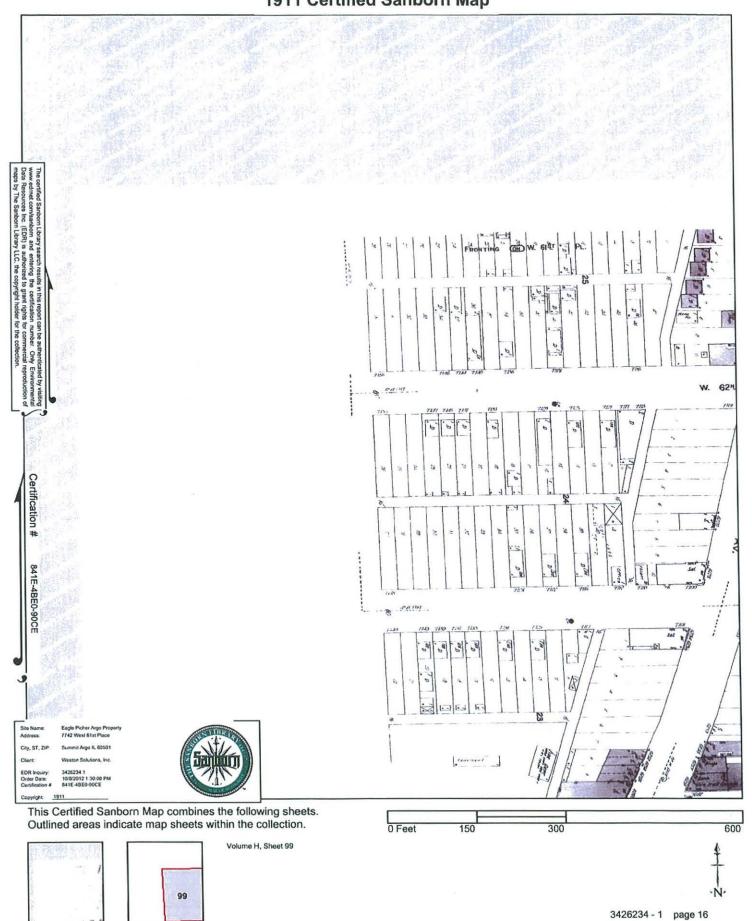
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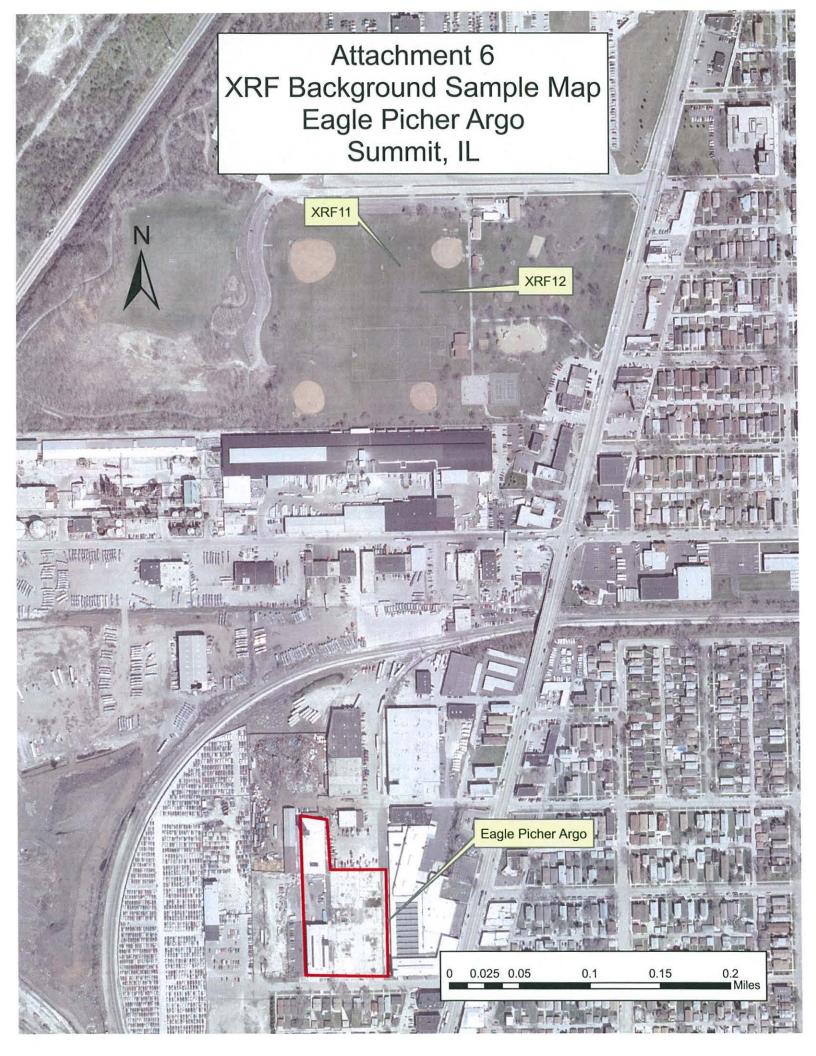












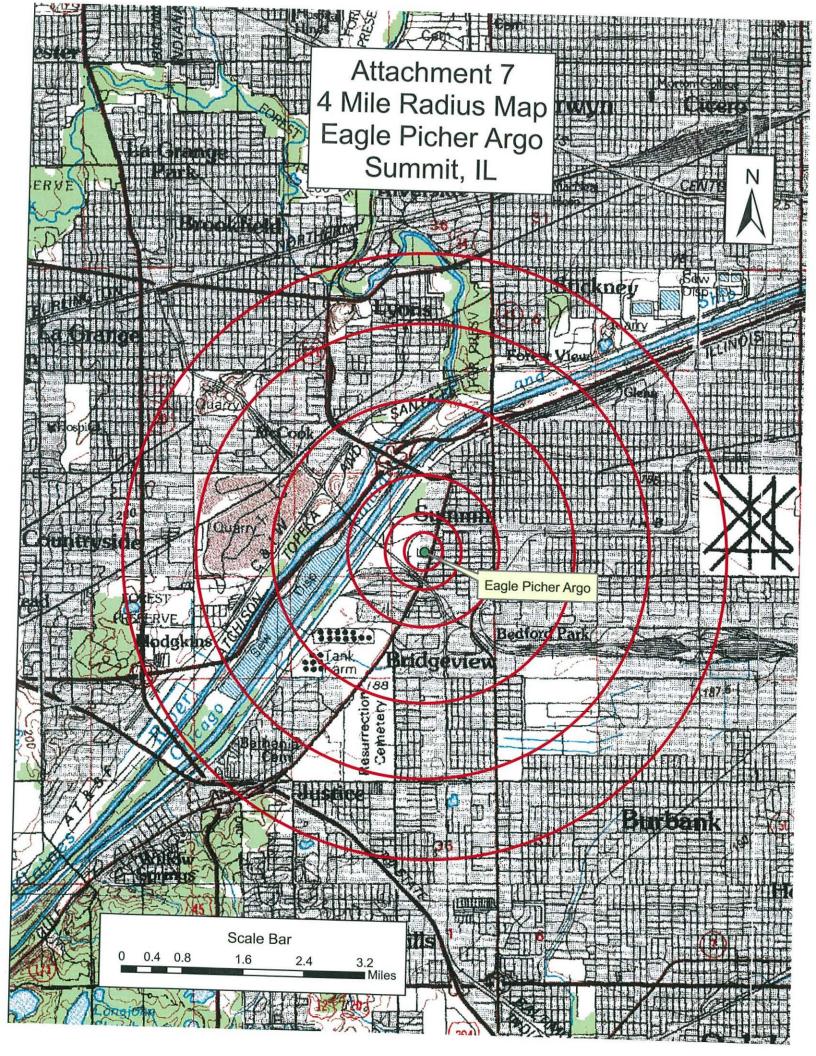


Table 1 Summarized XRF Data Eagle Picher Argo Summit, IL

	XRF 3	XRF 4	XRF 5	XRF 6	XRF 7	XRF 8	XRF 9	XRF 10	XRF 11	XRF 12
	0 - 1 inch	0 - 1 inch	0 - 1 inch	0 - 1 inch	0 - 1 inch	0 - 1 inch	0 - 1 inch	0 - 1 inch	0 - 1 inch	0 - 1 inch
Lead	114	87	38	47	65	143	65	106	42	30
Zinc	<lod< td=""><td>310</td><td>118</td><td>125</td><td>316</td><td>335</td><td>347</td><td>276</td><td>82</td><td>53</td></lod<>	310	118	125	316	335	347	276	82	53
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Chromium	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>

all values are reported in parts per million (ppm)

< LOD - below the limit of detection of the instrument

XRF 11 AND XRF 12 are background samples collect from Summit Park

	2		*	
25				
			*	
		9 2		

Appendix A- Site Reconnaissance Photographs Eagle Picher, Summit, IL 60501-1614 March 18, 2013

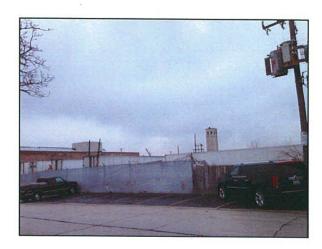
Date: March 18, 2013

Time: 12:41

Photo By: JoAnn Morgando

ILD 000510834

Direction: Northwest



Date: March 18, 2013

Time: 12:47

Photo By: JoAnn Morgando

ILD 000510834

Direction: Northeast



Date: March 18, 2013

Time: 12:50

Photo Taken By: JoAnn Morgando

ILD 000510834 Direction: North



Appendix A- Site Reconnaissance Photographs Eagle Picher, Summit, IL 60501-1614 March 18, 2013

Date: March 18, 2013

Time: 12:50

Photo By: JoAnn Morgando

ILD 000510834

Direction: Northwest



Time: 12:41

Photo By: JoAnn Morgando

ILD 000510834 Direction: North



